

CHEMICAL HEALTH HAZARDS

The information contained in this appendix was taken from product labels and material safety data sheets (MSDSs), unless otherwise noted. It should be noted that this information is not complete, and should not be considered an exhaustive source of health data on the health effects of the pesticides listed. ALWAYS READ THE LABEL AND CURRENT MATERIAL SAFETY DATA SHEET BEFORE USING ANY PESTICIDE.

For questions, contact the Department of Agriculture, Weights and Measures Pesticide Regulation Program (858.694.2755).

Avert

Active Ingredients: Abamectin B1 0.05%.

Label Signal Word: Caution

Acute and Chronic Effects:

Acute and chronic health effects in humans are unknown. Abamectin is highly toxic via ingestion in animal studies causing central nervous system effects.

Baygon 2% Bait

Active Ingredients: 2-(1-methylethoxy)phenol methylcarbamate 2%.

Label Signal Word: Caution

Acute Effects:

Harmful if swallowed or absorbed through the skin. Acute over exposure causes tightness in chest, sweating, small pupils, stomach pains, vomiting and diarrhea.

Chronic:

Suspect animal cancer causing agent. Chronic exposure levels not established.

Borid

Active Ingredients: Orthoboric Acid (boric acid) 99%.

Label Signal Word: Caution

Acute and Chronic Effects:

Large amounts absorbed into blood stream from ingestion or through damaged skin may result in erythema, macular rash, nausea, diarrhea, dizziness, depression, CNS effects after 24 hours – through broken skin or 36-72 hours from ingestion. May cause slight irritation to broken skin.

Cynoff

Active Ingredients: Cypermethrin

Label Signal Word: Warning

Acute Effects:

Data available to date on human exposure indicates that cypermethrin, the active ingredient in Cynoff, may produce skin sensations (feelings of burning, numbing, and tingling) in certain individuals. These sensations subside and disappear within a few hours. Cynoff WP is not a skin sensitizer.

Chronic Effects:

In studies with laboratory animals, cypermethrin did not cause reproductive toxicity, teratogenicity, or neurotoxicity in laboratory animals or carcinogenicity in male and female rats and male mice. Liver enlargement is often noted in laboratory animals ingesting large doses of cypermethrin during their life span.

Diphacinone

Active Ingredients: Diphacinone 2%.

Label Signal Word: Caution

Acute Effects:

Reaction to overexposure may include back and abdominal pain, vomiting, bleeding from nose and gums, pallor and weakness.

Chronic Effects:

If swallowed by humans, domestic animals or pets this material may reduce clotting ability of the blood and cause increased bleeding.

Dri-Die Insecticide

Active Ingredients: Amorphous Silica Gel 95.3%, Ammonium Fluosilicate 4.7%.

Label Signal Word: Caution

Acute and Chronic Effects:

Eye: Mild to non-irritating eye effects.

Skin: Non-irritating skin effects. Effects of overexposure – N/E.

Dursban ® 4E

Active Ingredients: Chlorpyrifos Phosphorothioate 44.4%.

Label Signal Word: Warning

Acute Effects:

Eye – May cause moderate irritation and moderate corneal injury, which should heal in 2 weeks.

Skin Contact – May cause moderate to severe irritation and, if exposure is severe, may cause superficial burn.

Skin Absorption - May be absorbed in toxic amounts upon prolonged contact, is moderate in toxicity by this route.

Ingestion – Moderate single dose oral toxicity

Chronic Effects:

Systemic and other effects – Cholinergic effects (Chlorpyrifos) and narcosis (solvents).

Dursban Whitmire PT-270

Active Ingredient: Chlorpyrifos .5%.

Label Signal Word: Warning

Acute Effects:

Effects of overexposure include discomfort or tightness in chest, difficulty breathing, stomach pains, nausea, vomiting, diarrhea, cramps, headache, nervousness, weakness, nonactive pinpoint pupils or blurred vision. Symptoms may not occur until 1-8 hours after exposure. This product is toxic to fish and birds. Compound is a skin and eye irritant.

Chronic Effects:

Has the potential to bio-accumulate.

Empire® Microencapsulated Insecticide

Active Ingredients:	Chlorpyrifos 20%
Label Signal Word:	Caution
Acute Effects:	<p>Eye-Essentially nonirritating to eyes.</p> <p>Skin Contact-Prolonged contact is essentially nonirritating to skin.</p> <p>Skin Absorption-A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.</p> <p>Ingestion-single dose oral toxicity is extremely low.</p> <p>Inhalation-Vapors are unlikely due to physical properties.</p> <p>Systemic (other target organs) Effects-Chlorpyrifos is a cholinesterase inhibitor. Chlorpyrifos produced mild adrenal effects when fed to rats, but only at doses that greatly exceeded any exposures that would be received during use of this product.</p> <p>Excessive exposure to solvent may cause respiratory irritation and central nervous system effects; however, excessive exposure to chlorpyrifos or to solvent is unlikely due to physical state (encapsulated).</p>
Chronic Effects:	<p>Cancer-Chlorpyrifos did not cause cancer in long-term animal studies.</p> <p>Teratology (birth defects)-Chlorpyrifos did not cause birth defects in animals; other effects were seen in the fetus only at doses, which caused toxic effects to the mother.</p> <p>Reproductive effects-In animal studies, chlorpyrifos has been shown not to interfere with reproduction.</p> <p>Mutagenicity (effects on genetic material)-Based on a majority of negative data and some equivocal or marginally-positive results, chlorpyrifos is considered to have minimal mutagenic potential.</p>

Ficam Plus

Active Ingredient:	Bendiocarb 29.45%; pyrethrins 3.06%; piperonyl butoxide 7.66%.
Label Signal Word:	Warning.
Acute and Chronic Effects:	Not corrosive to skin or eyes. Slightly irritating to skin, not eyes. May be fatal if swallowed. May be absorbed through skin, may cause cholinesterase inhibition. Bendiocarb poisoning produces effects associated with anticholinesterase activity that may include headache, nausea, vomiting, muscular fibrillation, incoordination, abdominal cramps, salivation, incontinence, constricted pupils and reversible impairment of vision. Toxic to fish and wildlife.

Ficam D

Active Ingredient:	Bendiocarb 1%.
Label Signal Word:	Caution
Acute and Chronic Effects:	Harmful if swallowed, inhaled or absorbed through skin. Do not breathe dust. Overexposure to bendiocarb produces effects associated with anticholinesterase activity which may include headache, nausea, vomiting, muscular fibrillation, incoordination, abdominal cramps, salivation, incontinence, constricted pupils and reversible impairment of vision.

Gentrol ® Point Source

Active Ingredient: (S)-Hydroprene
Label Signal Word: Caution

Acute and Chronic Effects: Due to the unique nature of the product form, acute toxicity hazards are not anticipated. Based on test results the EPA has determined that no significant risk to users, the public, or the environment exists when this product is used as indicated on the product label.

Knox-Out

Active Ingredients: Diazinon 23%.

Label Signal Word: Caution

Acute and Chronic Effects: Harmful if swallowed or absorbed through skin, may cause skin and eye irritation. Effects may include headache, dizziness, weakness, incoordination, muscle twitching, tremor, nausea, abdominal cramps, diarrhea and sweating. Compound is a cholinesterase inhibitor.

Magnetic Roach Food 2000 Paste Formula

Active Ingredients:	Boric acid 33.3%,(synonyms-Orthoboric acid, Boracic acid).
Label Signal Word:	Caution.
Acute Effects:	Eye and Skin-Not an irritant. Ingestion-Boric acid has a relatively low toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.
Chronic Effects:	Cancer-Did not cause cancer in long-term animal studies, an is not considered a carcinogen. Reproduction-Human study of occupational exposure to borate dust showed no adverse effect to reproduction. Target Organs-No target organ has been identified in humans.

Maxforce Bait Stations

Active Ingredient:	Hydramethylnon .65% - 2%.
Label Signal Word:	Caution
Acute and Chronic Effects:	May be harmful if swallowed. No health hazards reported due to physical form.

Niban Granular Bait

Active Ingredients:	Boric acid.
Label Signal Word:	Caution.
Acute Effects:	Eye-Avoid dust contact with eyes. May cause eye irritation. Skin Contact-Not an irritant. Ingestion-This material may be harmful if swallowed. Inhalation-Breathing dust may cause irritation of nose and throat.

Perma-Dust, Whitmire PT 240

Active Ingredients:	Boric Acid 20%.
Label Signal Word:	Caution.
Acute and Chronic Effects:	Slight skin irritation may result from prolonged contact with wet powder spray. May cause eye irritation. Oral effects: Nausea, vomiting, diarrhea. Chronic exposure levels have not been reported.

Precor 1%.

Active Ingredient:	Prometon 5%; simazine .75%; sodium chlorate 40%; and sodium metaborate 50%.
Label Signal Word:	Caution
Acute and Chronic Effects:	Non irritating to skin and eyes. No adverse effects resulting from human exposure have been observed during research and manufacturing.

PT 565 Pyrethrin

Active Ingredient:	Pyrethrins, 0.5%.
Label Signal Word:	Caution
Acute and Chronic Effects:	Eye-May cause irritation. Skin-Prolonged exposure may cause skin irritation. Ingestion & Inhalation-Unlikely due to the product being pressurized and producing particles large enough not to be respirable. A few cases of extrinsic asthma from pyrethrin mixtures have been reported.

Pyrenone

Active Ingredient: Pyrethrins 1%; piperonyl butoxide 10%.

Label Signal Word: Caution

Acute and Chronic Effects: Harmful if swallowed. No chronic exposure levels have been established for this material.

Sanisol

Active Ingredient: n-Alkyl Dimethyl Benzyl, 1.00%.
Ammonium Chloride Octyl Decyl Demethyl, 1.00%.
Ammonium Chloride Dioctyl Demethyl, 1.00%.
Ammonium Chloride Sodium Metasilicate, 1.00%.

Label Signal Word: Danger

Acute Effects: Eye & Skin- Direct contact may cause damage.
Inhalation- Excessive inhalation of vapors/mist can cause irritation to the mucous membranes and respiratory tract.
Ingestion-Immediate burning pain in the mouth, throat, abdomen, and severe swelling of the larynx, skeletal muscle paralysis, affecting ability to breathe, circulatory shock, convulsions.

Chronic Effects: Not a suspected cancer agent.

Siege Gel Insecticide

Active Ingredient: Hydramethylnon, 2.00%.

Label Signal Word: Caution

Acute Effects: The acute oral LD50 in both male and female rats is greater than 5,000 mg/kg indicating this product is practically non-toxic.

Chronic Effects: Hydramethylnon is not listed as a carcinogen.

Stick-Em Glue Traps

Active Ingredients:	None listed.
Label Signal Word:	No signal word given.
Acute and Chronic Effects:	Excessive temperatures may produce irritating vapors. This product not considered hazardous under current Department of Labor Regulations.

Talstar ® CA Granular Insecticide

Active Ingredient:	Bifenthrin, 0.2%.
Label Signal Word:	Caution
Acute Effects:	Talstar CA Granular has low oral and dermal toxicity, and is non-irritating to the eyes and skin.
Chronic Effects:	No data available.

Tempo 0.1% Dust

Active Ingredient:	Cyfluthrin, 0.1%.
Label Signal Word:	Caution
Acute Effects:	The active ingredient in this product has low toxicity and no specific systemic symptoms of overexposure are known to occur in humans. Mild eye and skin irritation, such as itching, stinging, redness or rash may occur from contact with the dust. Mucous membrane irritation involving the nose, throat and upper respiratory tract may occur from inhalation of aerosols during end use of the product.
Chronic Effects:	Based on animal studies, no adverse effects or symptoms would be expected from chronic exposure to the active ingredient in this product during normal use.

Tempo 20 WP

Active Ingredients:	Cyfluthrin 20%.
Label Signal Word:	Caution
Acute Effects:	Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation.
Chronic Effects:	Based on animal studies, no adverse effects or symptoms would be expected from chronic exposure to the active ingredient in this product during normal use.

Terro Ant Killer II

Active Ingredient:	Sodium Tetraborate Decahydrate (Borax) 5mg. per cu. ft. water.
Label Signal Word:	Caution
Acute and Chronic Effects:	None listed.

ULD BP-300 Insecticide

Active Ingredient:	Pyrethrum, 3.00% Piperonyl Butoxide Tech, 6.00%. N-octyl Bicycloheptane Dicarboximide, 10.00%.
Label Signal Word:	Caution.
Acute Effects:	Prolonged or repeated contact of product with skin may cause irritation. Product spray mist, fog or vapor may cause irritation to nose, throat and lungs if adequate ventilation is not employed. Direct contact of product with eyes can cause irritation. If taken internally, aspiration of liquid product can cause chemical pneumonitis.
Chronic Effects:	None listed.

Wasp Freeze PT 515 (Aerosol Spray)

Active Ingredients: Isoparaffinic petroleum solvent and carbon dioxide, 99.74%.
Phenothrin, 0.12%.
D-trans allethrin 0.129%

Label Signal Word: Caution

Acute and Chronic Effects: May cause eye irritation. Prolonged exposure may cause skin irritation and dermatitis. Inhalation and ingestion is unlikely due to the product being pressurized and producing particles large enough not to be respirable. Higher concentrations of the petroleum solvent (? 1000 ppm) may cause headache and dizziness, are anesthetic, and may have other central nervous system effects. When used according to label directions this level will not be attained.

ZP Tracking Powder

Active Ingredient: Zinc phosphide, 10.00%.

Label Signal Word: Caution

Acute and Chronic Effects: Primary route of entry: ingestion.
Caution: may be irritating. May reduce clotting ability of the blood and cause bleeding.